

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions and listings of claims in the application:

1 - 18. (cancel)

19. (currently amended) A method of quantifying coenzyme Q-10 and a 2-electron reduced form thereof contained in a specimen, comprising the steps of:

extracting said coenzyme Q-10 and 2-electron reduced form thereof from said specimen using a water-soluble organic solvent selected from the group consisting of isopropyl alcohol and a solvent having a polarity comparable to that of isopropyl alcohol, so as to obtain an extraction liquid which contains extracted coenzyme Q-10 and 2-electron reduced form thereof;

concentrating said extracted coenzyme Q-10 and 2-electron reduced form thereof using a concentration column and a first mobile phase, so as to obtain concentrated coenzyme Q-10 and 2-electron reduced form thereof;

separating said concentrated coenzyme Q-10 and 2-electron reduced form thereof using a separation column and a second mobile phase which is different from said first mobile phase, so as to obtain separated coenzyme Q-10 and 2-electron reduced form

thereof;

reducing said separated coenzyme Q-10 using a non-coulometric cell reduction column; and

detecting said reduced coenzyme Q-10 and said separated 2-electron reduced form using a detector.

20. (previously presented) The method of quantifying coenzyme Q-10 and a 2-electron reduced form thereof contained in a specimen, as claimed in claim 1, further comprising the step of storing said extraction liquid at a temperature within a range of room temperature to a melting point of said extraction liquid.

21. (currently amended) An analysis system of analyzing coenzyme Q-10 and a 2-electron reduced form thereof contained in an analytical sample, comprising

a first liquid-feeding mechanism for feeding a first mobile phase with said analytical sample;

a second liquid-feeding mechanism for feeding a second mobile phase;

a switching mechanism for switching between said first liquid-feeding mechanism and said second liquid-feeding mechanism;

a condensation column for concentrating said coenzyme Q-10 and 2-electron reduced form thereof, when said first mobile phase with said analytical sample is fed;

a separation column for separating said coenzyme Q-10 and said 2-electron reduced form thereof that are concentrated on said condensation column, when said second mobile phase is fed;

a non-coulometric cell reduction column for reducing said coenzyme Q-10 so as to obtain a reduced coenzyme Q-10; and

an electrochemical detector for detecting said reduced coenzyme Q-10 and said 2-electron reduced form thereof.

22. (previously presented) The analysis system of analyzing coenzyme Q-10 and a 2-electron reduced form thereof contained in an analytical sample as claimed in claim 21,

which further comprises an ultraviolet absorption detector.